

## CLAIMS

1. A thermoplastic polymer composition, comprising a fluororesin (A) and non-fluorine-containing cured rubber (B), wherein  
5 the fluororesin (A) comprises a fluorine-containing ethylenic polymer (a), and the non-fluorine-containing cured rubber (B) is at least one rubber (b) which is at least partially crosslinked.

2. The thermoplastic polymer composition of Claim 1,  
10 wherein the fluorine-containing ethylenic polymer (a) has a melting point of 120 to 310°C.

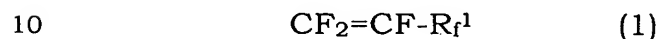
3. The thermoplastic polymer composition of Claim 1 or 2,  
wherein the rubber (b) is at least one rubber selected from the group  
15 consisting of an olefin rubber, an acrylic rubber, a nitrile rubber, a silicone rubber, an urethane rubber and an epichlorohydrin rubber.

4. The thermoplastic polymer composition of any one of Claims 1 to 3, wherein the cured rubber (B) is a rubber, in which the  
20 rubber (b) is dynamically-vulcanized in the presence of the fluororesin (A) and a crosslinking agent (C).

5. The thermoplastic polymer composition of any one of Claims 1 to 4, wherein the fluororesin (A) forms a continuous phase  
25 and the cured rubber (B) forms a dispersion phase in the structure of the composition.

6. The thermoplastic polymer composition of any one of Claims 1 to 5, wherein the fluororesin (A) is a copolymer of tetrafluoroethylene and ethylene.

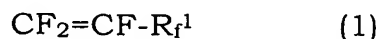
5                   7. The thermoplastic polymer composition of any one of Claims 1 to 5, wherein the fluororesin (A) is a copolymer of tetrafluoroethylene and a perfluoro ethylenically unsaturated compound represented by the following general formula (1):



(wherein  $\text{R}_f^1$  represents  $-\text{CF}_3$  and/or  $-\text{OR}_f^2$ , and  $\text{R}_f^2$  represents a perfluoroalkyl group having 1 to 5 carbon atoms).

15                   8. The thermoplastic polymer composition of Claim 7, wherein the copolymer of tetrafluoroethylene and a perfluoro ethylenically unsaturated compound has a melting point of 120 to 245°C.

20                   9. The thermoplastic polymer composition of any one of Claims 1 to 5, wherein the fluororesin (A) is a polymer comprising 19 to 90 % by mole of a tetrafluoroethylene unit, 9 to 80 % by mole of an ethylene unit, and 1 to 72 % by mole of a perfluoro ethylenically unsaturated compound unit represented by the following general  
25 formula (1):



(wherein  $R_1^1$  represents  $-CF_3$  and/or  $-OR_1^2$ , and  $R_1^2$  represents a perfluoroalkyl group having 1 to 5 carbon atoms).

10. The thermoplastic polymer composition of any one of  
5 Claims 1 to 5, wherein the fluoro-resin (A) is polyvinylidene fluoride.

11. The thermoplastic polymer composition of any one of  
Claims 1 to 10, wherein the rubber (b) is at least one selected from the  
group consisting of an ethylene-propylene-diene rubber, an  
10 ethylene-propylene rubber, a butyl rubber, a halogenated butyl rubber,  
an acrylonitrile-butadiene rubber, a hydrogenated  
acrylonitrile-butadiene rubber, a dimethylsilicone rubber, a  
vinylmethylsilicone rubber and a styrene-diene-styrene block  
copolymer.

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12. The thermoplastic polymer composition of any one of  
Claims 4 to 11, wherein the crosslinking agent (C) is at least one  
selected from the group consisting of organic peroxide, an amine  
compound, a hydroxy compound, a phenol resin compound, a sulfur  
20 compound, a bismaleimide compound and a quinoid compound.

13. The thermoplastic polymer composition of any one of  
Claims 4 to 12, wherein the rubber (b) has at least one crosslinkable  
functional group in a molecule, and the crosslinking agent (C) is an at  
25 least bifunctional compound which can react with said functional  
group.

14. The thermoplastic polymer composition of any one of Claims 1 to 13, further comprising a flame retardant.

5 15. A molded article, comprising the thermoplastic polymer composition of any one of Claims 1 to 14.

16. A sheet, comprising the thermoplastic polymer composition of any one of Claims 1 to 14.

10 17. A film, comprising the thermoplastic polymer composition of any one of Claims 1 to 14.

15 18. A laminate, which has layers comprising the thermoplastic polymer composition of any one of Claims 1 to 14.

19. An electric wire jacket, comprising the thermoplastic polymer composition of any one of Claims 1 to 14.

20 20. A LAN cable, which is equipped with the electric wire jacket of Claim 19.